

ABSTRACT OF THE DISCLOSURE

A system and method for recharging secondary batteries. One embodiment of the present invention comprises a supervisory circuit, a voltage converter, a portable power source, and one or more of a holder and a socket. The holder is adapted to receive a specific type of secondary battery of a portable device. The socket is adapted to mate with a plug of a device-specific charging cord connected to the portable device. Each of the holder and the plug can be associated with a programming resistor that provides a voltage requirement of the secondary battery. When the secondary battery is either placed in the holder or is connected to the socket, the supervisory circuit communicates with the voltage converter to supply the appropriate voltage required to recharge the secondary battery. The voltage converter receives power from the portable power source. The voltage converter can convert the voltage of the portable power source up (i.e., increasing the voltage) or down (i.e., decreasing the voltage) as appropriate to recharge the secondary battery as instructed by the supervisory circuit. The portable power source of the portable battery recharge station can be one of several types of power sources. For example, the portable power source can be replaceable, rechargeable, or renewable.